

**CHEMICALLY-MODIFIED COATINGS FOR ENHANCED
PERFORMANCE OF INK-JET IMAGES**

ABSTRACT OF THE DISCLOSURE

5

Ceramic pigment-based, chemically-modified porous coatings can be used for enhancing image permanence of ink-jet image printing. Specifically, a porous coated media sheet, comprising a media substrate, having a porous coating coated thereon comprising a modified ceramic pigment including a fixer 10 group and a stabilizer group, each covalently attached to the ceramic pigment is disclosed. Additionally, a method and system for preparing permanent ink-jet images is also provided.

15